AMANO®

Nexus Lite (Web Interface)

USER MANUAL

Scope of Document

This document gives a brief overview of operation of the Nexus Lite Controller's Web user interface.

Document Conventions

We use the following conventions in this document:

	Note – points out extra information
	Tip – points out alternative methods to perform a task
	Important – points out important information
	Warning – points out potential danger to you or the product

Before You Begin

Have the following available:

- An active Ethernet connection to the Nexus Lite Controller (using a standard Ethernet cable).
- The latest version of Java Runtime Environment installed.

1 System Settings

Installing Java Runtime Environment (JRE)

1. Using Windows® Internet Explorer go to **www.java.com**.
2. On the Home Page, click on the **Free Java Download** button.
3. Click the **Install** button.
4. At the Java Setup – Welcome dialog, click the **Accept >** button.
5. At the Java Setup – Complete dialog, click the **Finish** button.
6. Close Internet Explorer.
7. Restart your PC.

Starting the Nexus Lite Web Interface

Over a LAN

Do NOT open more than 1 instance of the Web Interface per Controller. When using the Web Interface with the Touch Screen Controller, ensure the screen is locked.

*If the Web Server resides on a Port other than Port 80, the URL becomes: **http://nexuslite:XX/**. The **XX** highlighted in the URL refers to the new Port number.*

If your Controller connects direct to the PC, refer to page 24 for information on accessing the Web Interface.

1. In your Internet Browser go to **http://nexuslite/**.
2. At the Security Warning, click the **Run** button.
3. Click the **OK** button.
4. Select a location in which to save the Backup. Backup takes place automatically at startup, retaining the **5** most recent backups.

5. Click the **Open** button.
6. Enter the default **Admin Code (12345)**. For information on changing this code, refer to page 23.

Over a WAN

When the Web Interface loads, it connects to the Controller using the hostname and the Controller's configured port. This hostname is only valid on the LAN. To connect the Web Interface to the Controller from another network or across the internet, provide the router with a public static IP Address or a dynamic hostname and configure port forwarding.

1. In your internet browser go to **http://nexuslite/**.
2. At the Controller Connection Error dialog, click the **Yes** button.
3. Enter the **Hostname or IP Address** for the Controller.
4. Click the **OK** button.
5. Enter the **Host Port** for the Controller.
6. Click the **OK** button.

The values used for the alternative Hostname and Host Port load as defaults the next time you load the Web Interface on the same computer, logged in as the same user.

Date or Time Setup

1. From the Main Menu, select **System**>**Date/Time**.
2. Synchronise the Nexus Lite Controller's Date and Time to your PC by clicking the button.
3. Set the **Start** and **End Date** for Daylight Savings using the buttons.
4. Set the time that Daylight Savings takes effect using the **Switch Time** textbox.
5. Set the duration of the Daylight Savings time shift using the **Shift Duration** textbox.
6. Click the button.

Auto-ID

Populate tables and identify Terminals by performing an Auto-ID:

1. From the Main Menu, select **System**>**Auto ID**.
2. At the **Auto-ID** dialog, click the **Yes** button.
3. Click the **OK** button.

Door Configuration

The Nexus Lite System supports a maximum of **8** Doors. Each Door has **3** Door Mode Patterns (each with **4** time period allocations). The user interface allows for configuration of each Door individually (labeled **1** through **8**) or configuration across all Doors at once (**All** label).

Add a Door

General Settings

1. From the Main Menu, select **System**>**Doors**.

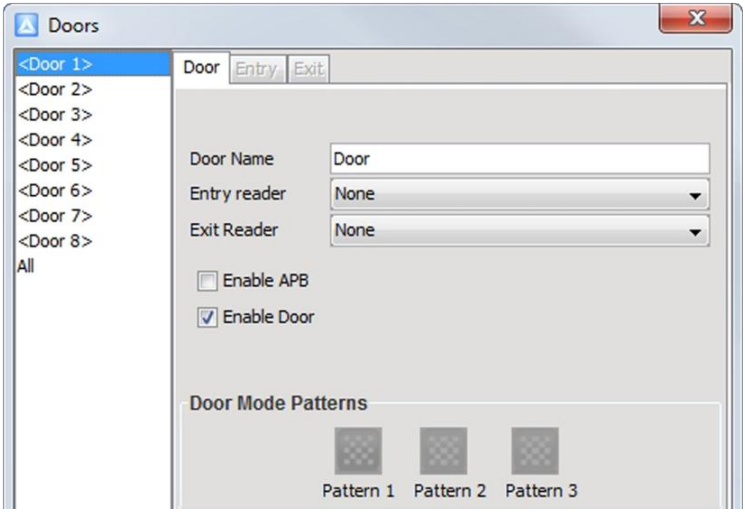

Figure 1 – Door Configuration Dialog

2. With the **Door** Tab selected, in the **Door Name** textbox, assign a suitable name (maximum **16** characters).
3. Select the **Entry Reader** using the drop-down list. Make your selection from the list of displayed Readers.
4. Select the **Exit Reader** using the drop-down list. Make your selection from the list of displayed Readers.
5. Add the Door to the Anti-passback (APB) Zone, by selecting the **Enable APB** checkbox.
6. If necessary, de-select the **Enable Door** checkbox.
7. Click the button.
8. Click the **OK** button.

Entry Settings

1. Select the **Entry** Tab.
2. Select the **RTE Mode** using the drop-down list, your options include:
   - **Normally Closed**—sensor remains closed until opened by an operator.
   - **Normally Open**—sensor remains open until closed by an operator.
3. Edit the **DOS Mode** using the drop-down list, your options include:
   - **Normally Closed**
   - **Normally Open**
4. Edit the **DOS Usage** using the drop-down list, your options include:
   - **Normal**—alarm sounds if the Door remains open too long or if the Door is forced. Use this feature for monitoring real Door open states.
   - **Inhibit Reader**—deactivates the Reader as long as the Door is open; also there is no alarm for Doors forced open. Used to disable the reader while the Door remains open.
   - **Terminate Strike**—deactivates the relay if Door is opened and closed or forced. Use this feature where the lock must re-engage once the Door is closed.
5. Set the **Buzzer Volume (Allowed)** using the drop-down list, select from the options (Off, Soft, Medium and Loud) given.

6. Set the **Buzzer Volume (Denied)** using the drop-down list, select from the options (Off, Soft, Medium and Loud) given.
7. Set the amount of time (in seconds) the Door stays open before an alarm triggers using the **Door Open Duration** textbox. By default, the Open Duration is set to **0**, disenabling the Door Open Sensor (DOS).
8. Set the amount of time (in seconds) the Door remains unlocked using the **Strike Duration** (in seconds) textbox. The default Strike Duration is **4**. The maximum Strike Duration is **999 999**.
9. By default end-of-line sensing is disabled, to enable end-of-line sensing on the Door Open Sensor (DOS), select the **Enable DOS Line Sensing** checkbox.
10. Click the ✅ button.
11. Click the **OK** button.

Exit Settings

1. Select the **Exit** Tab.
2. Based on the similarity of the steps involved in Exit Settings, refer to the *Entry Settings* section (page 5) for more information.

Door Mode Pattern Configuration

1. Select the **Door** Tab.
2. Click the **Pattern 1** button.

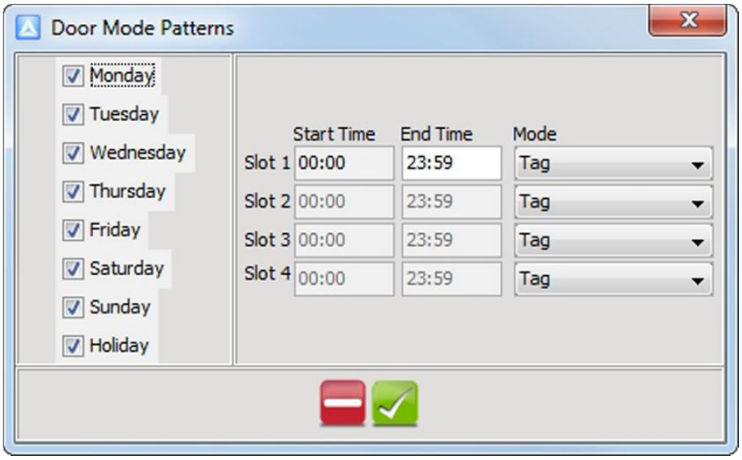

Figure 2 – Door Mode Patterns Dialog

3. Make your selection from the list of available access days (Monday to Sunday or Holidays).
4. For **Slot 1**, enter a **Start** and **End Time**.
5. From the **Mode** drop-down list, select from the following:
   - **Locked**—the Door is locked and cannot be overridden with any Tag. In this Mode the Reader LED flashes Red.
   - **Tag**—requires presentation of a Tag to open the Door. In this Mode the Reader LED is steady Red.
   - **Tag + PIN-code**—requires presentation of a Tag followed by entry of a PIN-code to open the Door. PIN-codes range from **2 to 65534**. After entering the PIN-code, complete the entry by pressing the # key). In this Mode the Reader's LED blinks Red then Green. Selecting this mode without connecting a keypad reader, applies **Tag** rules.
   - **Tag + Reason**—requires presentation of a Tag followed by entry of a Reason Code to open the Door. In this Mode, the Reader's LED blinks OFF then ON in Red. Selecting this mode without connecting a keypad reader, applies **Tag** rules.
   - **Personal Access Code**—requires entry of a Personal Access Code (PAC) to open the Door. Your Personal Access Code may range from between **1 to 9999** followed by a # symbol. In

this Mode, the Reader's LED blinks ON then OFF in Red.

- **Open on First Tag**—the door is opened when the first valid Tagholder presents their Tag and remains open. In this Mode the Reader's LED flashes Green.
- **Open Now**—the Door opens at specified time. A Tag is not required to open the Door. In this Mode the Reader's LED is steady Green.

6. Repeat steps 4 and 5 for the remaining Slots.

For example, set 3 time periods for a Door open between 8 am and 5 pm, that is:

- ***Slot 1**—Start Time 00:00 (default), Stop Time 07:59.*
- ***Slot 2**—Start Time 08:00, Stop Time 17:00.*
- ***Slot 3**—Start Time 17:01, Stop Time 23:59.*

7. Click the button.
8. Set any remaining Door Mode Patterns.
9. Click the button.
10. Click the button.

Delete a Door

1. From the Main Menu, select **System**>**Doors**
2. Select the **Door** for deletion.
3. Click the button.
4. Click the **OK** button.
5. Click the button.

Access Group Setup

*The **Default Access Group** allows ALL Tagholders assigned to the Group access to ALL Doors at ALL times. Therefore, create Access Groups to restrict or allow access as required.*

Add an Access Group

1. From the Main Menu, select **System**>**Access Groups**.

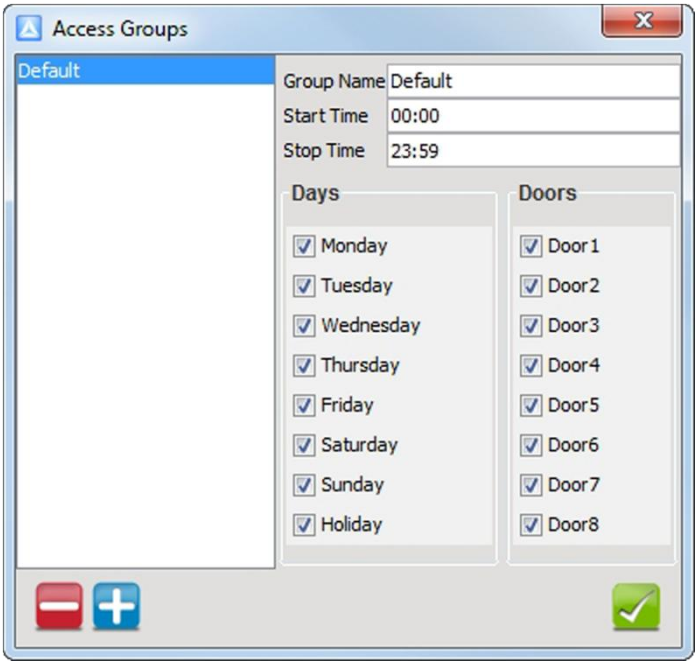

Figure 3 – Access Groups Dialog

2. Click the button.
3. Enter a suitable name in the **Group Name** textbox.
4. Set the **Start** and **Stop Time**.
5. Make your selection from the list of available **Days**.
6. Make your selection from the displayed **Doors**.
7. Click the button.
8. Click the **OK** button.
9. Click the button.

Delete an Access Group

1. From the Main Menu, select **System**>**Access Groups**.
2. Select the **Group Name** for deletion.

3. Click the button.
4. Click the **OK** button.
5. Click the button.

Edit an Access Group

1. From the Main Menu, select **System**>**Access Groups**.
2. Select the Access Group for editing.
3. Based on the similarity of the steps involved in Editing an Access Group, refer to *Add an Access Group* (page 9) for more information.

Holidays Setup

Add a Holiday

1. From the Main Menu, select **System**>**Holidays**.
2. Click the button.
3. Enter a suitable name in the **Holiday Name** textbox.
4. Set the **Start Date** by clicking the button.
5. Set the **End Date** by clicking the button.
6. Click the button.
7. Click the button.

Delete a Holiday

1. From the Main Menu, select **System**>**Holidays**.
2. Select the **Holiday Name** for deletion.
3. Click the button.
4. Click the button.

Edit a Holiday

1. From the Main Menu, select **System**>**Holidays**.
2. Select the **Holiday Name** for editing.
3. Based on the similarity of the steps involved in Editing a Holiday, refer to the section *Add a Holiday* (page 10) for more information.

Reason Code Setup

The Nexus Lite System allows for storage of **up to 10 Reason Codes**. You may assign any number between **0** and **99** as a Reason Code, letting you to keep legacy Reason Codes to avoid retraining employees.

1. From the Main Menu, select **System**>**Reason Codes**.

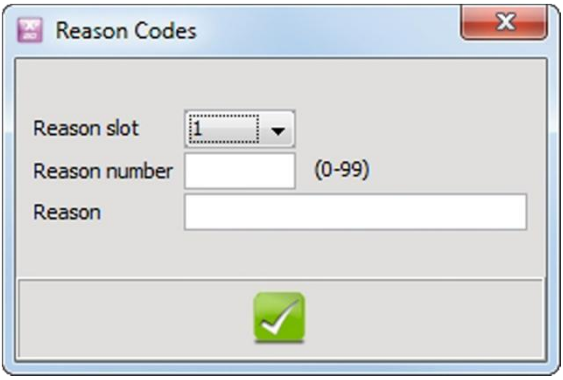

Figure 4 – Reason Code Dialog

2. From the **Reason Slot** drop-down list, select a number between **1** and **10**.
3. Enter a number between **0** and **99** in the **Reason Number** textbox.
4. Enter a suitable description in the **Reason** textbox.
5. Click the button.
6. Click the button.

Return to the Main Menu by clicking the button.

2 Tagholder Configuration

Setting up a Template before adding Tagholders, streamlines the Tagholder addition process.

Because of the way standard Wiegand Readers handle HID Tag codes, Nexus Lite Sites using standard Wiegand Readers connected to the Nexus Lite Controller (iTRT Platform) can only support one of two options:

- *HID Tags only (set the DIP-switch to Wiegand Open Format) or*
- *any other Tag type (that is Slim Tags, Omega Tags, Mifare® Standard, Mifare® Ultralite, FeliCa, Desfire, WriTag 128 and WriTag 2048). Set the DIP-switch to Wiegand 26-bit/44-bit.*

For more information refer to the Nexus Lite Controller (iTRT Platform) Installation Manual. If you need a combination of HID Tags and other Tag types, make use of the Amano Multi-discipline Readers.

The Nexus Lite System supports a maximum of **1 000** Tagholders, each with a maximum of **3** Tags.

Add Tagholder

Tagholder Information

1. From the Main Menu, select **Tagholders**.
2. Click the button.

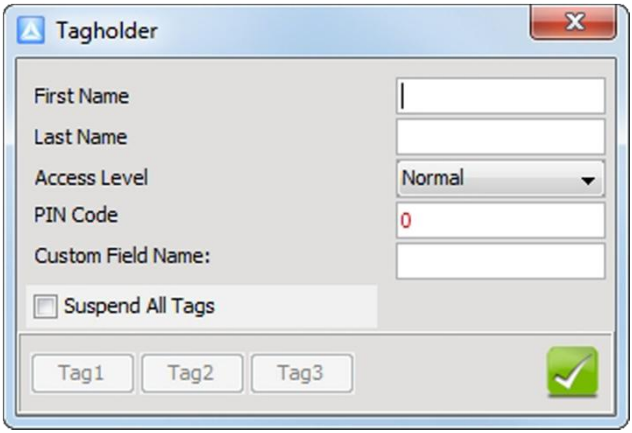

Figure 5 – Tagholder Dialog

3. Complete the **First** and **Last Name** textboxes.
4. Using the **Access Level** drop-down list, select from the following:
   - **Visitor**—restricted access, valid for day of issue only.
   - **Normal**—employee Tagholder, access restricted by Door Mode.
   - **Administrator**—overrides Anti-passback (APB) rules.
5. If necessary, complete the **PIN-code** textbox.
6. Edit the **Custom Field** textbox.
7. If necessary, select the **Suspend All Tags** checkbox.
8. Click the button.

Tag Information

1. Click the **Tag1** button.

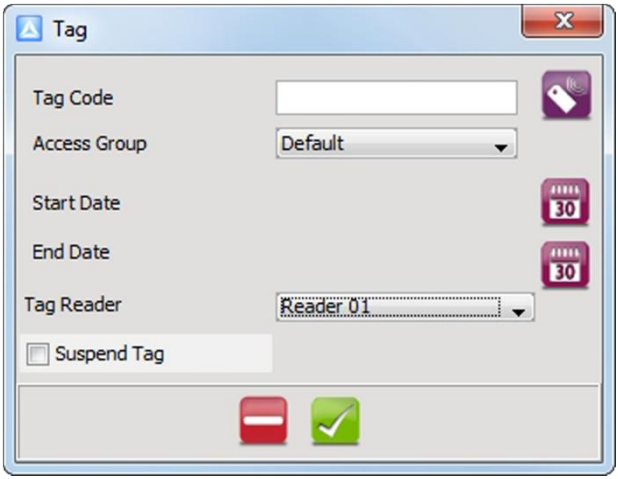

Figure 6 – Tag Dialog

2. Select your Tag registration reader using the **Tag Reader** drop-down list.
3. Click the button alongside the **Tag Code** textbox, or type the tag code into the **Tag Code** textbox.
4. Present a Tag to your chosen **Tag Reader**.

*Alternatively, enter a Personal Access Code (PAC) in the **Tag Code** textbox. Your Personal Access Code may range from between **1 to 9999**.*

5. From the **Access Group** drop-down list, make your selection.
6. Complete the **Start** and **End Date** requirements using the associated buttons.
7. If necessary, select the **Suspend All Tags** checkbox.
8. Click the button.
9. Click the button.

Add a Batch of Tags

1. From the Main Menu, select **Tagholders**.

2. Click the button.
3. Select your Tag registration reader using the **Select Reader** drop-down list.
4. At the Batch Enrollment screen, click the button.
5. Present each Tag in succession to the Nexus Lite Controller.
6. After enrolling the batch of Tags, click the button.
7. Click the button.

Delete a Tagholder or Tag

1. From the Main Menu, select **Tagholders**.
2. Select the **Tagholder** you wish to delete.
3. Click the button.
4. At the confirmation message, click **Yes**.

*Alternatively, if you would like to delete just the Tag (keeping the Tagholder enrolled in the System), click the **Tag1**, **Tag2** or **Tag3** button representing the Tag for deletion.*

Edit Tagholders or Tags

1. From the Main Menu, select **Tagholders**.
2. Select the **Tagholder** for editing.
3. Click the button.
4. Based on the similarity of the steps involved in Editing a Tagholder or Tag details, refer to the *Add Tagholder* section (page 12).

Tagholder Template Setup

Create a template for Tagholder enrollment as follows:

1. From the Main Menu, select **Tagholders**.
2. Click the button.

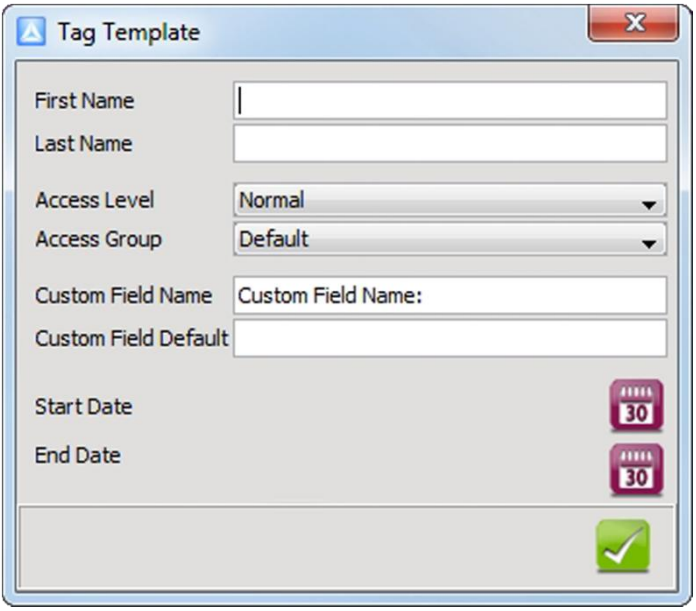

Figure 7 – Tag Template Dialog

3. Complete the **First** and **Last Name** textboxes.
4. From the **Access Level** drop-down list, select from the following:
   - **Visitor**—restricted access, valid for day of issue only.
   - **Normal**—employee Tagholder, access restricted by Door Mode.
   - **Administrator**—overrides Anti-passback (APB) Rules.
5. Select an **Access Group**, using the drop-down list.
6. Edit the **Custom Field Name** textbox.
7. Complete the **Custom Field Default** textbox.
8. Complete the **Start** and **End Date** requirements using the associated buttons.
9. Click the button.

Return to the Main Menu by clicking the button.

3 Reports

View Reports

1. From the Main Menu, select **Reports**>**Selected Report**.

Replace the term "Selected Report" with one of the following available Reports:

- ***Access**—this Report provides access data for the selected Tagholder over a specified date range.*
- ***Status**—this Report displays all the status transactions from Controllers and Terminals on a selected date.*
- ***Audit**—this Report provides a list of Tags added, edited or deleted over a specified date range.*
- ***Hours Worked**—this Report calculates hours worked from the IN and OUT Transactions of the Anti-passback (APB) Zone.*

2. Select the **Tagholder** using the drop-down list.
3. Set the Report's **Start** and **End Date** by clicking the button.
4. Click the button.

Export CSV (Comma Separated Value)

*The **Export CSV** button displays after you submit the filter data. If there is no available data, the **Export CSV** button is disabled.*

Export a Report as follows:

1. Click on the **Export CSV** button.
2. In the **Select Output File** dialog select one of the following button options:
   - **Save**—clicking the Save button, gives you the option to save the exported data to a location of your choice.
   - **Cancel**—clicking the Cancel button, cancels the export process.

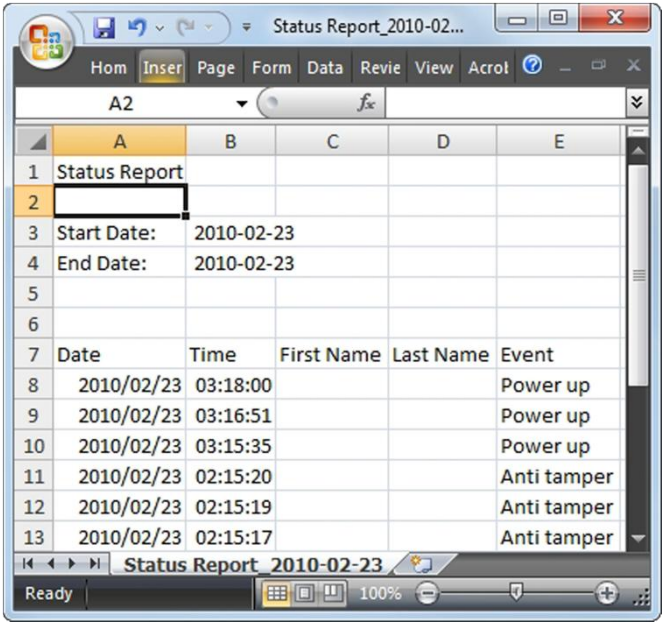

Figure 8 – Message Board Report Exported in CSV Format

Return to the Main Menu by clicking the button.

Live Transaction Viewer

Viewing Live Transactions

1. From the Main Menu, select **Live Transactions**.

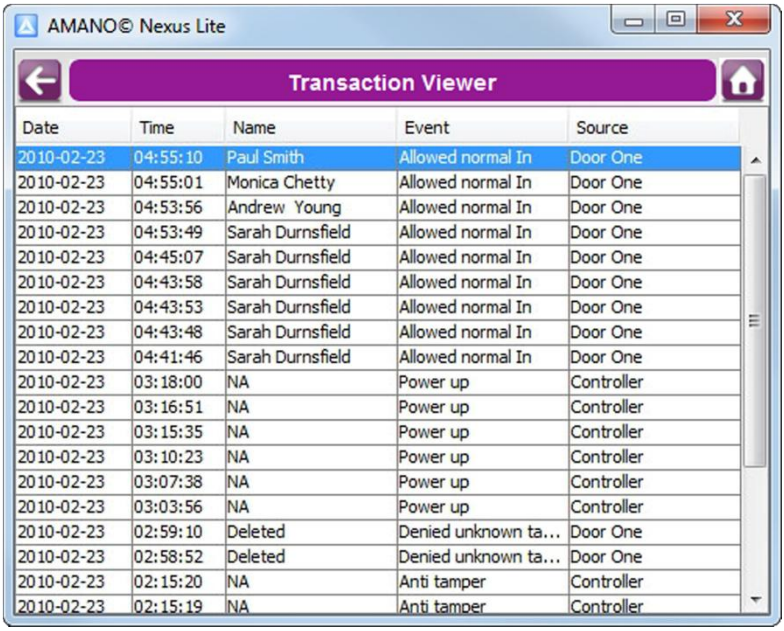
AMANO© Nexus Lite
Transaction Viewer
Date Time Name Event Source
2010-02-23 04:55:10 Paul Smith Allowed normal In Door One
2010-02-23 04:55:01 Monica Chetty Allowed normal In Door One
2010-02-23 04:53:56 Andrew Young Allowed normal In Door One
2010-02-23 04:53:49 Sarah Durnsfield Allowed normal In Door One
2010-02-23 04:45:07 Sarah Durnsfield Allowed normal In Door One
2010-02-23 04:43:58 Sarah Durnsfield Allowed normal In Door One
2010-02-23 04:43:53 Sarah Durnsfield Allowed normal In Door One
2010-02-23 04:43:48 Sarah Durnsfield Allowed normal In Door One
2010-02-23 04:41:46 Sarah Durnsfield Allowed normal In Door One
2010-02-23 03:18:00 NA Power up Controller
2010-02-23 03:16:51 NA Power up Controller
2010-02-23 03:15:35 NA Power up Controller
2010-02-23 03:10:23 NA Power up Controller
2010-02-23 03:07:38 NA Power up Controller
2010-02-23 03:03:56 NA Power up Controller
2010-02-23 02:59:10 Deleted Denied unknown ta... Door One
2010-02-23 02:58:52 Deleted Denied unknown ta... Door One
2010-02-23 02:15:20 NA Anti tamper Controller
2010-02-23 02:15:19 NA Anti tamper Controller

Figure 9 – Transaction Viewer

Return to the Main Menu by clicking the button.

4 Advanced Setup

Controller Setup

1. From the Main Menu, select **Advanced**>**Controller**.
2. Complete the **Site Name** textbox.
3. Using the **APB Type** drop-down list, select from the following:
   - **Strict**—enforced Anti-passback Zone rules for **in** and **out** directions. A Tagholder cannot enter or exit a Zone consecutively.
   - **Relaxed**—after entering a Zone, the Tagholder must exit the Zone using their Tag *before* they can re-enter. However, Tagholders can use their Tags for multiple, consecutive exits in this Mode.
4. Using the **Door Type** drop-down list, select from the following:
   - **Emergency Open**—opens all Doors immediately.
   - **Lock Down**—locks all Doors immediately.
   - **Normal**—Doors operate as set up.
5. Select the **Reset APB** checkbox if required.
6. The **Off-line Validation** checkbox is selected by default, allowing Terminals connected to the Controller to make certain access control decisions even when unable to communicate with the Controller. De-select the checkbox if necessary.
7. The **Display TFT Transactions** checkbox is selected by default, de-select the checkbox if necessary.
8. Click the ✅ button.

Ethernet

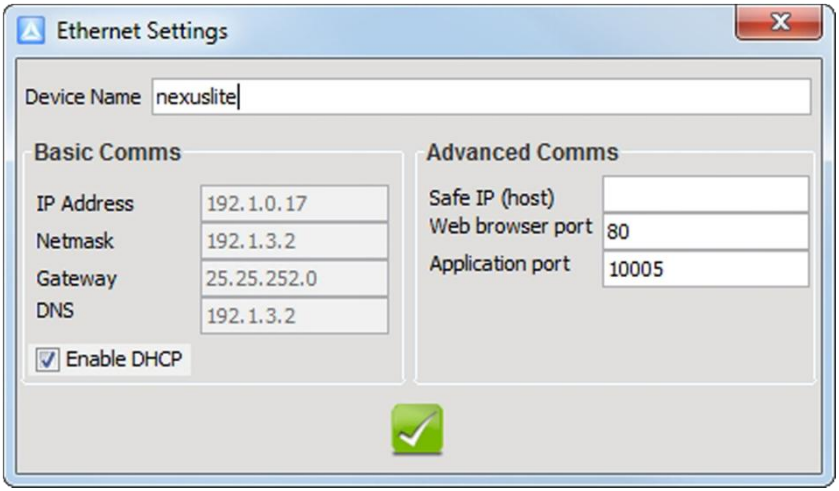

Figure 10 – Ethernet Settings Dialog

1. From the Main Menu, select **Advanced**>**Ethernet**.
2. Edit the **Device Name** textbox.
3. The **Enable DHCP** checkbox is selected by default, de-select the checkbox to set a static IP Address for the Controller.
4. Complete the **Safe IP (Host)** textbox. Safe IP lets you set a specific IP address for the Nexus Lite Controller to communicate exclusively with. This provides extra security by limiting access points to the System.

*The default Web Browser Port Number is **80** and the default Application Port Number is **10005**. Only change these Port Numbers, if they clash with other devices or services on your network.*

5. Complete the **Web Browser Port** textbox.
6. Complete the **Application Port** textbox.
7. Click the button.
8. When prompted to re-start the Controller, click the button.

Restore

Restore the Controllers configuration settings as follows:

1. From the Main Menu, select **Advanced**>**Restore**.
2. In the **Open** dialog, browse to your chosen Backup location.
3. Select the file for restoration.
4. Click the **Open** button.
5. At the **Message** dialog, click the **OK** button.
6. At the **Restart Required** dialog, click the **OK** button. Thus restarting the Web Interface, restoring your configuration settings.

UDP Output

The UDP Output feature sends events generated in the Nexus Lite System to a third-party application. Configure this feature as follows:

1. From the Main Menu, select **Advanced**>**UDP Output**.
2. Select the **Enable Output** checkbox.
3. Complete the **Receiving IP** textbox.
4. Complete the **Receiving Port** textbox.

> *The default Receiving Port Number is **10010**. Only change this Port Number if it clashes with other devices or services on your network.*

5. Set the time (in seconds) between notifications using the **Keep Alive Time** textbox. The default Keep Alive Time is **60 seconds**.
6. Click the button.

Replace Unit

1. Connect the NEW hardware.
2. Perform an Auto-ID (see page 4 for details).
3. From the Main Menu, select **Advanced**>**Replace Unit**.

4. Using the **Replace** drop-down list, make your selection.
5. Complete the **With** textbox referring to the Fixed Address of the replacement unit.
6. Click the button.
7. At the confirmation message, click **Yes**.

Security

Set or change the administrator password as follows:

1. From the Main Menu, select **Advanced**>**Security**.
2. Complete the **New Code** textbox.
3. Complete the **Confirm Code** textbox.
4. Click the button.
5. Click the **OK** button.

Return to the Main Menu by clicking the button.

Other Advanced Features

Manual Backup

Back up your Controller Configuration Settings as follows:

1. From the Main Menu, select **About**.
2. At the **About** Dialog, click the **Backup Now** button.

Backup saves to the same location selected in the section *Starting the Nexus Lite Web Interface* on page 2.

Troubleshooting

Restoring Factory Defaults

Restoring factory defaults will reset the Nexus Lite Controller's device name to Nexus Lite.

1. Set the **Door Lock Select** DIP-switch Switch 1 to the **ON** position.

Refer to your Nexus Lite Controller's Hardware Installation Manual for location of the DIP-switch.

2. Reset the Controller by removing and then reapplying the power source.
3. With the Controller running, set the **Door Lock Select** DIP-switch Switch 1 back to the **OFF** position.

Connecting the Nexus Lite Controller direct to a PC

When using more than one Nexus Lite Controller, ensure each Controller has a unique Device Name (see page21).

Setting a static IP Address for your Controller may result in difficulties when connecting direct to a PC. If the **Enable DHCP** checkbox has previously been de-selected in the Web Interface, ensure that you reselect the **Enable DHCP** checkbox before continuing (see page 21 for more information).

When connecting the Controller direct to a PC or Switch without a DHCP server, it takes about 30 seconds before the Controller gets assigned the default IP Address of 192.168.100.1.

On the PC

1. Select **Start>Control Panel**.
2. Click the **Network and Sharing Centre** icon.
3. Select **Local Area Connection**.
4. Click the **Properties** button.
5. Select the **Internet Protocol Version 4 (TCP/IPv4)** option.
6. Click the **Properties** button.
7. Set the **IP Address** to 192.168.100.X (X being any available number between 2 and 254. Ensure that your chosen number is unique between all Nexus Lite Controllers and the PC.).
8. Set the **Subnet Mask** to 255.255.255.0.
9. Click the **OK** button.

Extra Information

Further information is available at the following resources:

- **Nexus Lite (Touch Screen User Interface) User Manual** (ISC305-0-0-AC-XX).
- **Nexus Lite Controller Installation Manual** (ISC304-0-0-AC-XX).
- **Amano Nexus Lite Firmware Upgrade Utility User Manual** (ISC307-0-0-AC-XX).

Download the Amano Nexus Lite Firmware Upgrade Utility from the following URL: ***www.amano.com/access/downloads/Nexus Lite/nexuslitefirm.exe****.*

User Notes

Security Systems Division
180 Alt. 19, Suite A, Palm Harbor, FL 34683
Technical Support: (800) 390 5837

Corporate Headquarters
140 Harrison Avenue, Roseland, NJ 07068-1239,
(800) 526-2559

www.amano.com

This manual is applicable to the Nexus Lite Web Interface V 2.06. (The last two digits of the Amano stock code indicate the issue status of the product).			
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